REMARKS

Applicant conducted a Telephone Interview with the Examiner regarding the submission of Exhibits A and B in response to the Official Action filed on November 16, 2005. The Examiner was unable to read the Exhibits and suggested to divide the Exhibits into 8.5 x 11 pages. Attached is Exhibit A. Please note the Exhibit can be pieced together by referring to the attached grid. Exhibit B is being submitted in a separate transmission in order to prevent the pages of the Exhibits from being intermingled.

By submission of the 8.5 x 11 copies of Exhibit A, applicant respectfully submits that Amendment B is fully responsive to the Official Action dated March 1, 2005. Further, applicant respectfully requests reconsideration of Amendment B.

CONCLUSION

In light of the above amendments and remarks, it is respectfully submitted that the present application is now in proper condition for allowance, and such action is earnestly solicited.

If any small matter should remain outstanding after the Patent Examiner has had an opportunity to review the above Remarks, the Patent Examiner is respectfully requested to telephone the undersigned patent attorney in order to resolve these matters and avoid the issuance of another Official Action.

PAGE 4/46 * RCVD AT 12/15/2005 2:35:21 PM [Eastern Standard Time] * SVR:USPTO-EFXRF-6/26 * DNIS:2738300 * CSID: * DURATION (mm-ss):31-44

Serial No.: 09/938,714

DEPOSIT ACCOUNT

The Commissioner is hereby authorized to charge any fees associated with the filing of this correspondence to Deposit Account No. **50-0426**.

Respectfully submitted,

JENKINS, WILSON & TAYLOR, P.A.

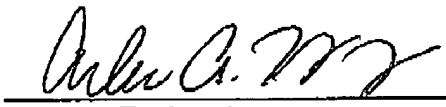
Date: December 15, 2005 By: 

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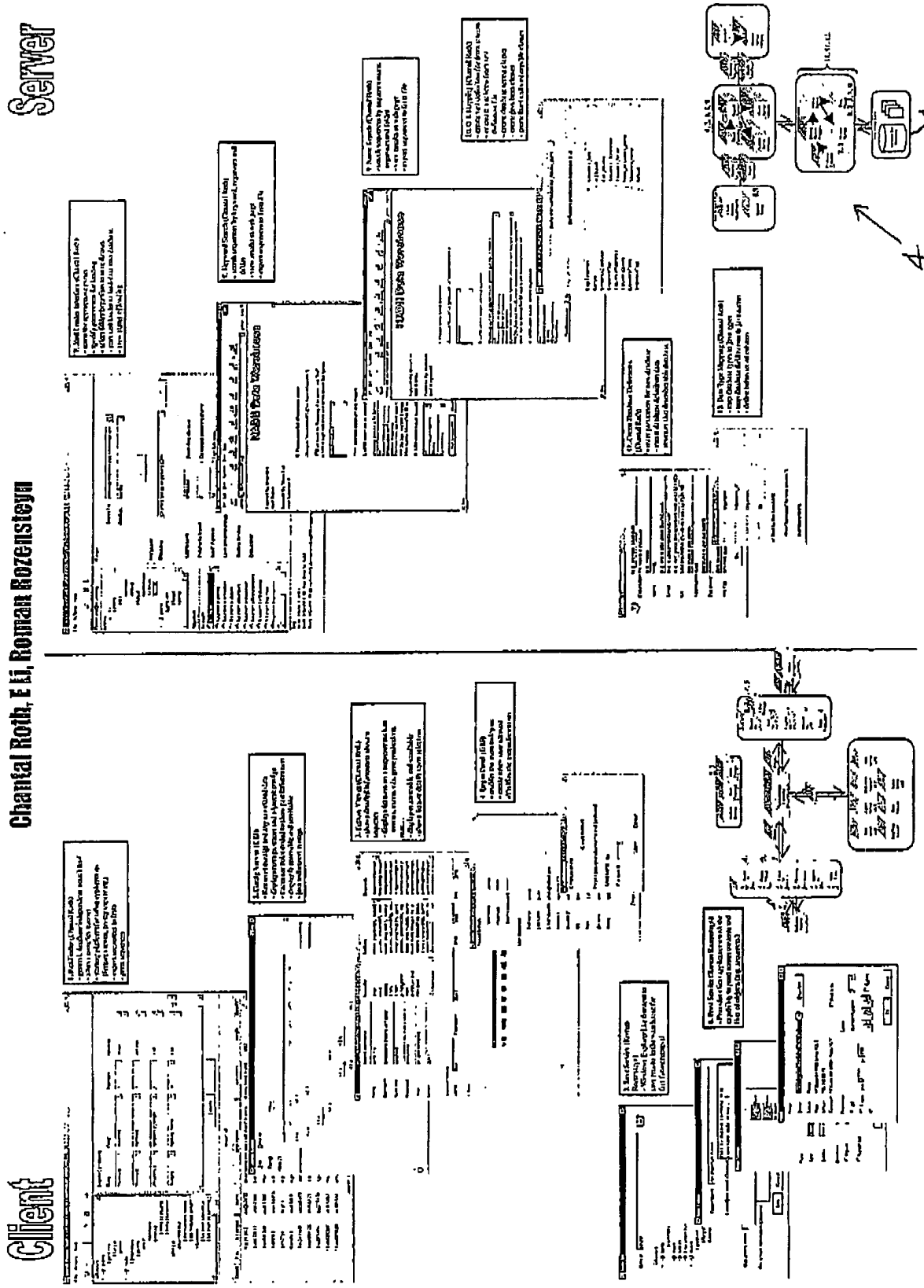
Exhibit A



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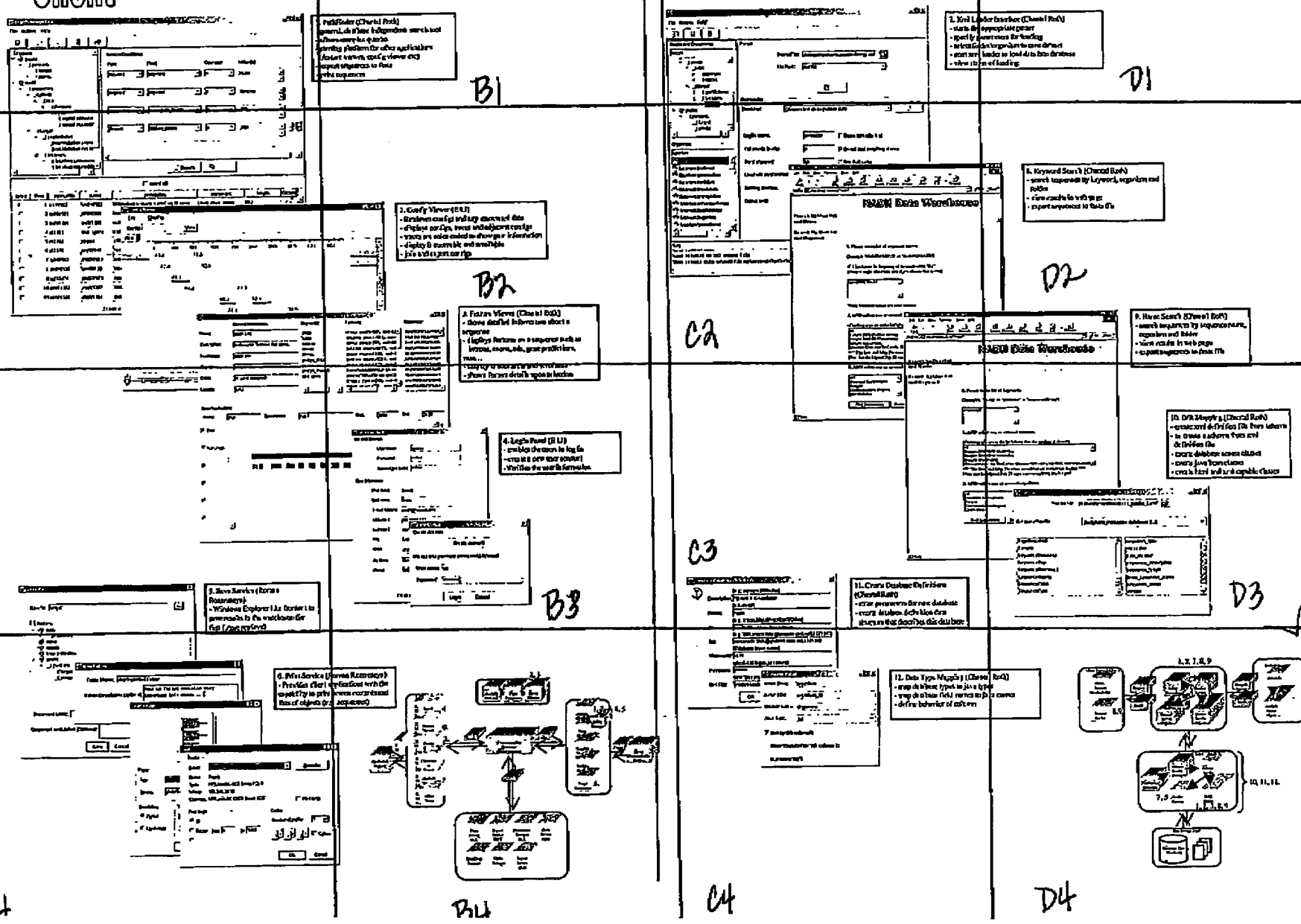
DEC. 15. 2005 2:36PM JENKINS, WILSON&TAYLOR7 NO. 2983 P. 7/23

BioSphere User and Administration Tools

Chantal Roth, E Li, Roman Rozensteyn

Client

Server



Client
Client
Folders
public
genbank
fungal
plants
patil
proprietary
plants
dna
chromosom
keyword
keyword
keyword

Config Viewer
A8.a 25
Contig4 2
A1.a
A1.b
A2.a
A2.b
A3.a
A4.a
A4.b
A5.a
A5.b
A6.a
A8.b
A2

5. Save Service (Roman Rozensteyn) - Windows Explorer like frontent to save results in the warehouse for fast future retrieval

A3

6. Print Service
- Provides client
capability to pri
lists of objects (e.g.

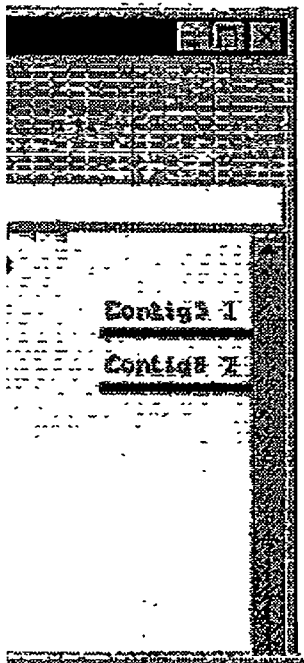
A4

Applied Biosystems

Chantal Roth, Esq.

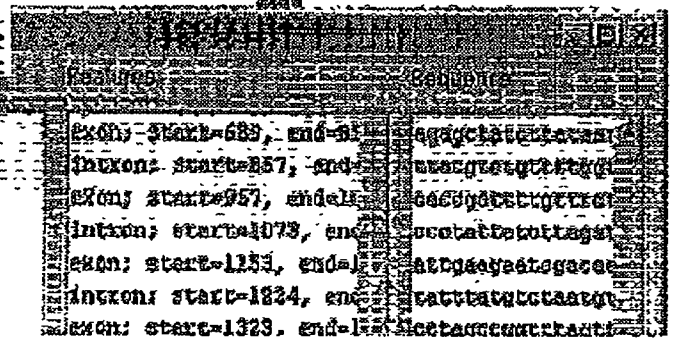
hFinder (Chantal Roth)
ral, database independent search tool
ws complex queries
ing platform for other applications
are viewer, contig viewer etc)
xport sequences to fasta
int sequences

B1



2. Contig Viewer (E Li)
- Retrieves contigs and any associated data
- displays contigs, traces and adjacent contigs
- traces are color coded to show pair information
- display is zoomable and scrollable
- join and export contigs

B2

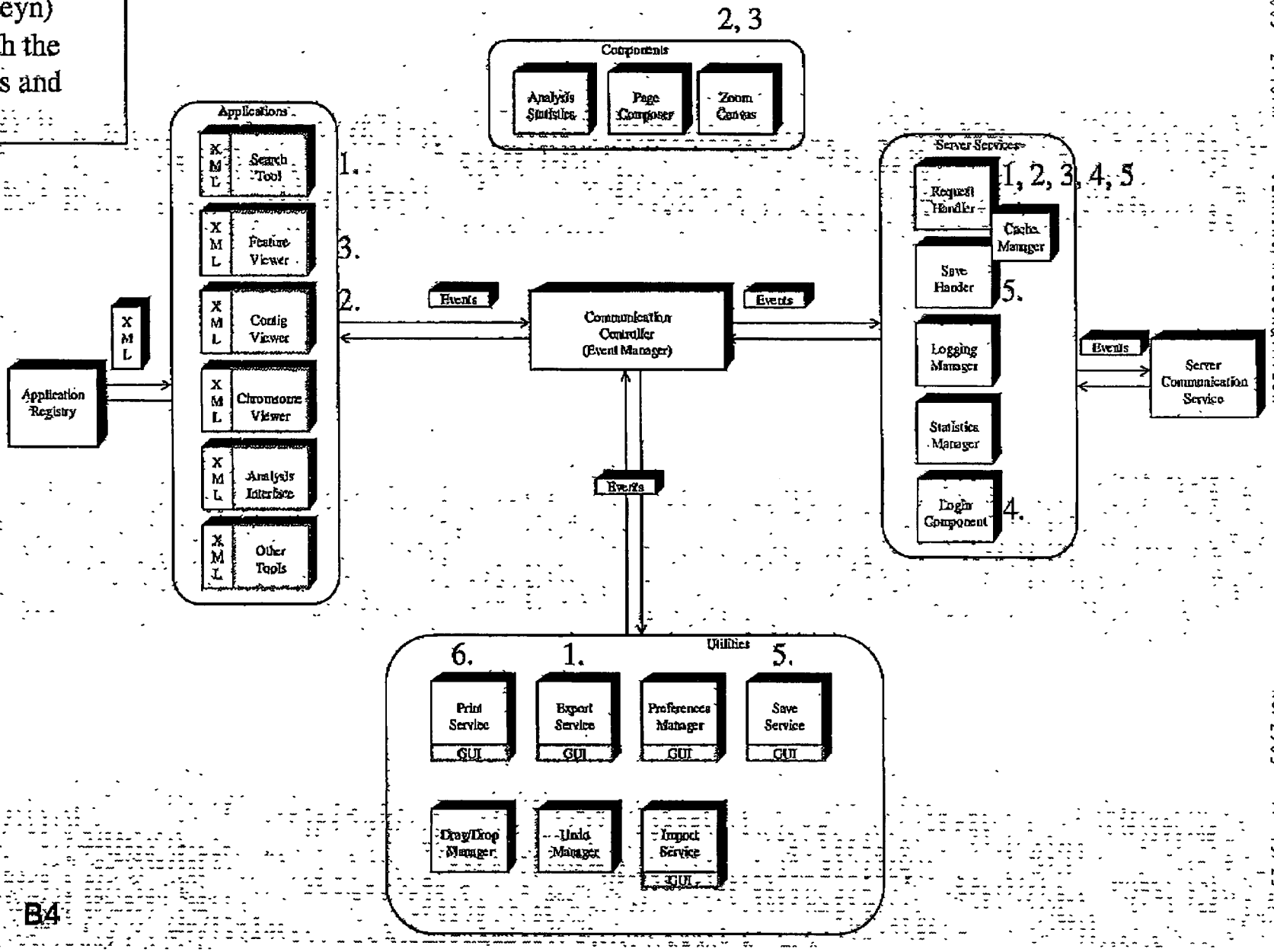


3. Feature Viewer (Chantal Roth)
- shows detailed information about a sequence
- displays features on a sequence such as introns, exons, cds, gene predictions, rnas...
- display is zoomable and scrollable
- shows feature details upon selection

4. Login Panel (E Li)
- enables the users to log in
- create a new user account
-Verifies the user information

B3

n Rozensteyn)
ıtions with the
n contents and
uences)



B4

Jan Rozenstein

C1

7. XmlLo
- starts the
- specify
- select 1
- start xml
- View si

Search DB by Name and User Set
Search by Name and Number
Search by Number and Keyword
Fusarium
fusarium acuminatum
fusarium acutatum
fusarium anguioides
fusarium anthophilum
fusarium arthrosporioides
fusarium bactridioides
fusarium begoniae
fusarium begoniiforme

C2

11. Create Database Definitions
(Chantal Roth)
- enter parameters for new database
- create database definition data structure that describes this database

C3

12. Data Type Mapping (Chanta
- map database types to java typ
- map database field names to java
- define behavior of column

C4

Interface (Chantal Roth)
opriate parser
eters for loading
rganism to save dataset
ader to load data into database
of loading
D1

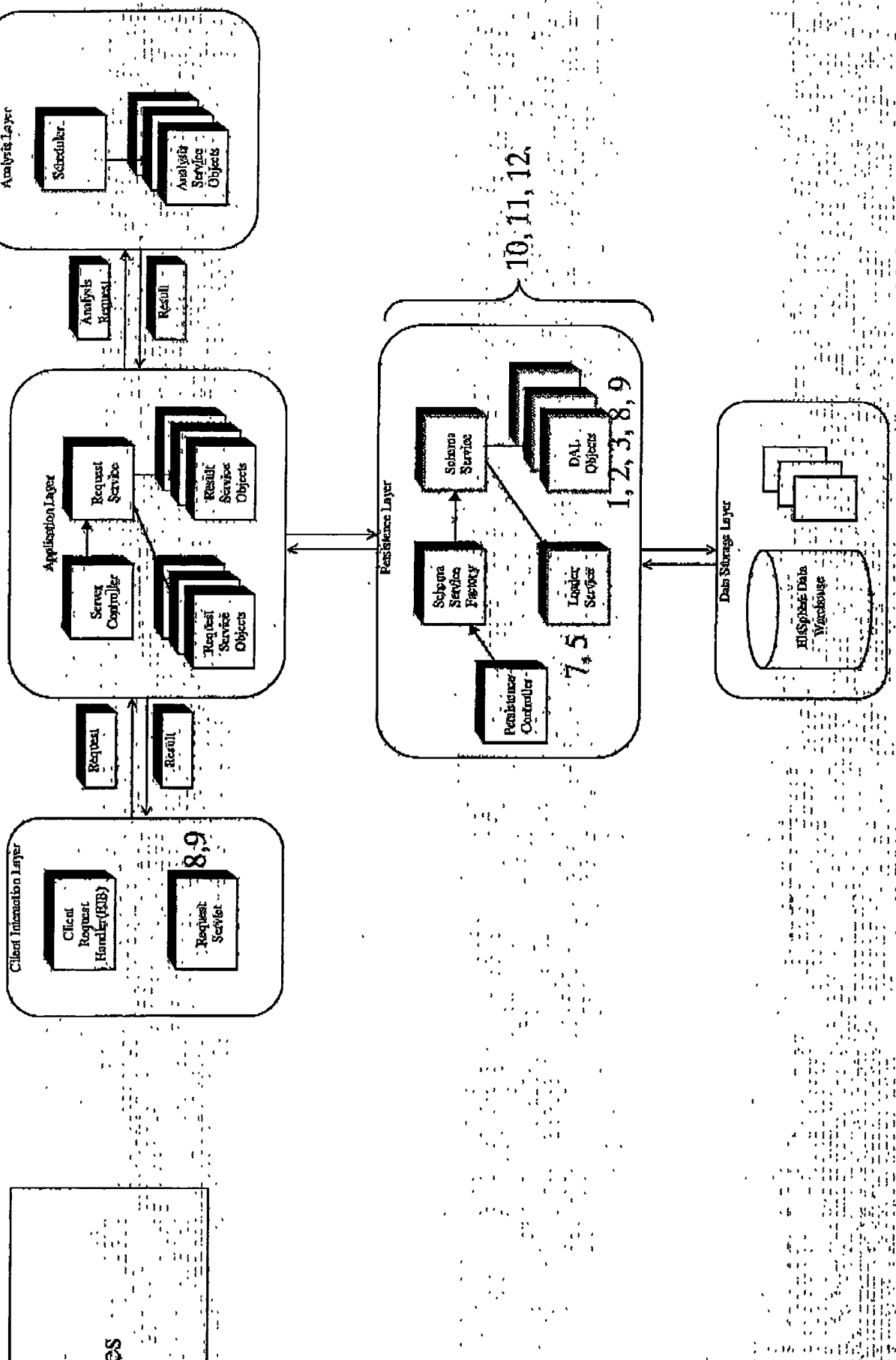
8. Keyword Search (Chantal Roth)
- search sequences by keyword, organism and folder
- view results in web page
- export sequences to fasta file

9. Name Search (Chantal Roth)
- search sequences by sequence name, organism and folder
- view results in web page
- export sequences to fasta file

D2

10. O/R Mapping (Chantal Roth)
- create xml definition file from schema
- or create a schema from xml definition file
- create database access classes
- create java bean classes
- create html and xml capable classes

D3


Analysis Layer
Scheduler
Analysis Service Objects
Analysis Request
Result
Application Layer
Request Service
Result Service Objects
Server Controller
Request Service Objects
1, 2, 3, 8, 9
Request
Result
Client Interaction Layer
Client Request Handler(FIB)
Request Servlet
8,9
10, 11, 12
Persistence Layer
Schema Service
DAL Objects
Schema Service Factory
Loader Service
Persistence Controller
1, 2, 3, 8, 9
7, 5
Data Storage Layer
HSQLDB Data Warehouse

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